

IN THE CLAIMS:

Please amend the claims as follows.

1. (Previously Presented) A molded glass substrate for a magnetic disk comprising:
upper and lower principal surfaces formed by molding between precision planar processing members;
an outer surface joining the upper and lower principal surfaces, wherein the outer surface ~~is a molding-free face~~ has a smoothness corresponding to a glass material that does not converge on a mold face; and
an inner surface joining the upper and lower principal surfaces, the inner surface defining a through-hole in a central portion of the substrate,
wherein ~~a mirror surface property of a molding die is transcribed onto~~ the upper and lower principal surfaces have a characteristic corresponding to a surface of the molding die, and an outer diameter ~~satisfies~~ has a desired dimensional tolerance ~~by selecting in accordance with~~ a predetermined volume of ~~[[a]]~~ the glass material,
wherein a thickness ~~of the molded glass substrate satisfies~~ has a desired dimension and tolerance ~~by adjusting in accordance with~~ a barrel die size,
and
wherein the upper and lower principal surfaces have a small waviness W_a of no greater than 0.5 nm.
2. (Original) The molded glass substrate according to claim 1, wherein each of the principal surfaces has an average surface roughness R_a of no greater than 0.5 nm.
3. (Original) The molded glass substrate according to claim 1, wherein each of the principal surfaces has a maximum height R_y of no greater than 5.0 nm.
4. (Original) The molded glass substrate according to claim 1, wherein each of the principal surfaces has a small waviness W_a of no greater than 0.5 nm.

5. (Original) The molded glass substrate according to claim 1, wherein each of the principal surfaces has accuracy of no greater than 3 μm in flatness.

6. (Original) The molded glass substrate according to claim 1, wherein the inner surface is ground and polished.

7. (Original) The molded glass substrate according to claim 1, wherein the inner surface is fire-polished.

8. (Original) The molded glass substrate according to claim 1, having a thickness of 0.3 mm to 1.0 mm and a diameter of 25.4 mm to 88.9 mm.

9.-20. (Canceled)

21. (New) The molded glass substrate according to claim 1, wherein the outer surface is a molding-free face in the mirror-finished state.

22. (New) A method for manufacturing a molded glass substrate for a magnetic disk having upper and lower principal surfaces, an outer surface joining the upper surface and lower principal surfaces, and an inner surface joining the upper and lower principal surfaces, comprising the steps of:

transcribing onto the upper and lower principal surfaces a mirror surface characteristic of a molding die;

forming an outer diameter that satisfies a dimensional tolerance in accordance with a predetermined volume of a glass material;

forming a thickness between the upper and lower principal surfaces that has a desired dimension and tolerance in accordance with a barrel die size;

forming the upper and lower principal surfaces having a waviness W_a of no greater than 0.5nm, and
forming the outer surface such that it does not converge on a mold face.